

Philosophy 21002/004/20075  
Introduction to Formal Logic  
Fall - 2009

11:00 am-12:15 am, T R, Room BOW 219

Instructor: Clarence G. Uher  
Office: Philosophy Department – 320 Bowman Hall, Room W

Office Hours: M W 2:05-3:35 pm, T R 5:05-6:05 pm, and by appointment.

Phone: (330) 672 - 2337

E-Mail: [cuher@kent.edu](mailto:cuher@kent.edu) (E-mail is the best way to contact me.)

#### A. Course Description

The focus of this course is on deductive arguments and the formal systems of analysis applied to arguments. The formal systems will include the use of Venn Diagrams, truth tables, and the rules of natural deduction that are used to develop proofs in both sentential and predicate logic. The concepts of *validity* and *soundness* will be explored during the process of analysis. The study of formal logic will give us an opportunity to discuss the relationship between human reasoning, language usage, and mathematical reasoning as each system of analysis develops. The formal analysis of deductive arguments will be approached as a process of *puzzle solving* in an attempt to temper the formal aspect of the course.

Success in this course will most often depend on the student's willingness to work on course material outside of the classroom. Proficiency in formal logic is best achieved through **daily practice**. It is more productive to study the course material everyday for forty-five minutes than to spend five hours studying at the end of the week. **The text we are using for this course contains a CD with helpful study aids.** The CD contains a tutorial for each reading section. I strongly recommend the use of the CD in conjunction with each reading sections we cover in the course. It is important that students heed this friendly advice, since success in this course often depends on one's study habits.

#### B. Text

1. Patrick J. Hurley, *Concise Introduction to Logic, 10th edition* (Custom Print), ISBN: 978-0-495-75226-6.

### C. Mechanics

- (a) There will be twelve (12) quizzes during the term. The two lowest quiz scores will be dropped. A missed quiz is counted as a dropped quiz. There are no make-ups offered for missed quizzes (regardless of reason) until the dropped quizzes are exhausted. (20 points each.)
- (b) The two midterm exams will cover the course material completed up to the date of the exam. (50 points each.)
- (c) The final exam will be comprehensive and will follow a similar format as the mid-term exams. (100 points.)

### D. Grades

Your final grade will be determined on the total points you acquire during the semester. The chart below indicates the minimum point total needed for the corresponding letter grade. Your final grade will be comprised of the following:

10 Quizzes @ 20 points each	200 points
2 Midterm Exams @ 50 points each	100 points
Final Exam	100 points
	400 points total

Minimum Points	0	240	252	270	280	292	310	320	332	350	360
Grade	F	D	D+	C-	C	C+	B-	B	B+	A-	A

### E. Make-ups

Please contact me as soon as possible if your absence has caused you to miss any graded course-work. Students will be permitted to make up missed quizzes (after the two dropped quizzes are exhausted) or exams do to an excused absence (e.g., a doctor's excuse). If a student does not have the proper documentation they will not be permitted to take a make-up exam. A missed quiz is counted as a dropped quiz. There are no make-ups offered for missed quizzes (regardless of reason) until the dropped quizzes are exhausted. A *request of make-up form* must be completed prior to taking the make-up assignment. Make-up work must be completed in a timely manor. In most cases, work must be completed on the day the student returns to class.

**F. Course Material On-line**

There will be some course material found on *Flashline*. Students can find the course syllabus, course notes, and assignments in the *files* folder under the *My Courses* tab on *Flashline*. Students must establish and maintain their Kent State University e-mail account to access the course material on-line. All e-mails are sent to students using the Kent State University e-mail account.

**G. Conduct in the classroom**

Proper conduct in the classroom will be expected of every member of the class. Talking, reading newspapers / books / magazines, frequently coming to class late, or leaving class early are rude and disruptive behaviors that will not be tolerated. Cell Phones should only be used for emergency calls. Please have your phone set to "vibrate" and answer your call or txt message outside of the classroom.

**H. Grievance procedure**

The Philosophy Department Grievance Procedure for handling student grievances is in conformity with the Student Academic Complaint Policy and Procedures set down as University Policy 3342-4-16 in the University Policy Register. For information concerning the details of the grievance procedure please see the Departmental Chairperson.

**I. Students with Disabilities**

In accordance with University policy, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the instructor at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the office of Student Accessibility Services (SAS) in the Ground Floor DeWeese Center (PHONE: 330-672-3391; FAX; 330-672-3763).

**Notes and Grade Record:**

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Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	T1	T2	T3	TOTAL	

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 Tentative Reading and Assignment Schedule  
 Kent State University, Kent Campus  
 Fall - 2009

Week	Dates	Assignment
1	9/1 9/3	Introduction to the course. Chapter 1, pp. 1-54
2	9/8 9/10	Chapter 1, pp. 54-61. (Begin with section 1.5) Chapter 4, Categorical Propositions, pp. 79-91.
3	9/15 9/17	Chapter 4, Translating O. L. into Categorical Form, pp. 122-133. Chapter 5, Categorical Syllogisms, pp. 139-146. In Class Assignment – Categorical Syllogisms.
4	9/22 9/24	Chapter 5, Venn Diagrams of Syllogisms, pp. 146-159. Chapter 5, Rules for Syllogisms, pp. 159-164. Chapter 5, Rules v. Venn Diagrams Exercise
5	9/29 10/1	<i>Exam #1 (50 points)</i> Chapter 6, Propositional Logic, Truth Functions pp. 195-218.
6	10/6 10/8	Chap. 6, Truth Tables for Propositions & Arguments, pp. 218-230. Chapter 6.5, Indirect Truth Tables, pp. 230-238. In Class Assignment – Truth Tables
7	10/13 10/15	Chapter 6.6, Argument Forms and Fallacies, pp. 238-254. Chapter 7.1, Natural Deduction, Rules of Implication, pp. 263-274
8	10/20 10/22	Chapter 7.2, Natural Deduction, Rules of Implication, pp. 274-283 In Class Assignment – Rules of Implication

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9	10/27	Review for exam #2 <i>Exam #2 (50 points)</i>
	10/29	
10	11/3	Chap. 7.3, Natural Deduction, Rules of Replacement, pp. 283-293 In Class Assignment – Rules of Replacement
	11/5	
11	11/10	Chap. 7.4, Natural Deduction, Rules of Replacement, pp. 294-304 Chap. 7.5 & 7.6, Conditional and Indirect Proofs, pp. 304-315.
	11/12	
12	11/17	In Class Assignment – Conditional and Indirect Proofs Chap. 8.1 & 8.2, Predicate Logic, pp. 333-352.
	11/19	
13	11/24	In Class Assignment – Predicate Logic <i>Thanksgiving Break – No Classes</i>
	11/26	
14	12/1	Chap.8.3, Predicate Logic, CQ Rules, pp. 352-357. Chap. 8.4, Predicate Logic, Conditional and Indirect pp. 357-362.
	12/3	
15	12/8	In Class Assignment Predicate Logic, Conditional and Indirect In Class Assignment – Predicate Logic & Review for Final Exam
	12/10	

*Final Exam: Tuesday, December 15, 2009, at 12:45 pm -3:00 pm.*

*The instructor reserves the right to change, correct, or amend the syllabus and / or the reading schedule during the semester.*